Extreme density, energy efficiency and reliability for space- and power-constrained enterprises

IBM BladeCenter E

Highlights

- ***Maximizes productivity and minimizes power usage through energy-efficient design and innovative features***
- ***Delivers extreme density and integration to ease data center space constraints***
- ***Protects an organization's IT investment through IBM BladeCenter® family longevity, compatibility and innovation leadership in blades***
- ***Supports latest generation of IBM BladeCenter blades, providing investment protection***
- ***Choice of 2000 W or 2320 W power supply to meet your IT infrastructure needs***

With today's data centers growing and becoming more complex than ever before, enterprise organizations look for innovative answers that combine extreme density with energy efficiency for productive, low-cost solutions. IBM BladeCenter E delivers a powerful platform to meet these requirements; it integrates servers, storage, networking and applications so organizations can build robust IT infrastructures. The result is a data center packed with more operating horsepower that leaves a small carbon footprint.

Lower power usage

With its best-in-class energy-efficient design, BladeCenter E enables organizations to reduce power consumption without compromising processing performance. In fact, the system is up to 11% or more efficient in power and cooling compared to the HP c-Class chassis to run the same configuration in the data center.[1]

With these power savings, an organization can operate at full potential with lower energy costs—and can go green and save.

Energy-efficient features and tools:

- *IBM Systems Director Active Energy Manager™ helps track power use, temperatures and heat for more granular data center management.*
- *A broad portfolio of low-voltage processor blade options helps reduce power consumption.*
- *Efficient power supplies waste less power as heat, making more energy available for chassis and servers.*
- *Blower and fan modules in the chassis adjust to compensate for changing thermal conditions.*

Manage growth through performance density

To help organizations expand their business, BladeCenter E can hold up to 168 processors (containing up to 672 cores) in a standard 42U rack, delivering major computing power in a small space. This helps power- and space-constrained customers make the most of data center square-footage; smaller spaces can easily accommodate business growth.

BladeCenter E chassis

Additionally, BladeCenter E features a highly integrated infrastructure to help simplify the deployment and management of servers, so organizations can get up and running more quickly. Tools like IBM Open Fabric Manager help speed network and server deployment and easily handle infrastructure failover.

Protect overall investment

Organizations implementing a blade platform need to know their system will stand the test of time; it's important that data center equipment will remain relevant for years to come to make the most of investments. This is why BladeCenter E is an ideal solution for organizations demanding long-term solutions; as an industry leader, IBM has the innovation and capability to deliver technology with longevity.

BladeCenter E is available with either 2000 W or 2320 W power supplies to meet your IT infrastructure needs.

It was announced in 2002 and remains one of the industry's most energy-efficient and dense chassis. This gives enterprise organizations the peace-of-mind that their systems are sustainable. BladeCenter E will continue to support the latest blades and processors for years to come, giving organizations confidence in their technology choice.

Solid design for the next generation

BladeCenter E, with its extreme compute density and energy-efficient design, helps organizations simplify their IT infrastructure by maximizing productivity and minimizing costs. IBM continues to build innovation into the BladeCenter E chassis with features such as the IBM Airborne Contaminant Filter, which helps protect the blade server's vital components in non-data center environments. BladeCenter E is the right choice for space- and power-constrained customers—for today and in the future.

IBM BladeCenter E Chassis at a glance	
Form factor/height	Rack-mount chassis/7U
Blade bays	Up to 14
Switch modules	Four switch module bays
Power supply module	Up to four 2000 W or 2320 W (hot-swap and redundant with load-balancing and failover capabilities)
Cooling modules	Two hot-swap and redundant blowers standard
Standard media	DVD multi-burner (also available as a CTO option)
Systems management hardware	One Advanced Management Module standard; add an optional second module for redundancy
I/O ports	Keyboard, video, mouse, Ethernet, USB
Systems management software	Open and easy systems management and trial deployment tools
Light path diagnostics	Blade server, processor, memory, power supplies, blowers, switch module, management module, HDDs and expansion card
Limited warranty[2]	3-year customer replaceable unit and onsite limited warranty
External storage	Support for IBM System Storage™ solutions (including DS and Network Attached Storage (NAS) family of products) and many widely adopted non-IBM storage offerings

For more information

World Wide Web

U.S.	**ibm.com**/systems/bladecenter
Canada	**ibm.com**/systems/ca/en/bladecenter

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[1] Configuration notes: HS21 blade in BladeCenter E and BL460c in c-Class, both with two 2.66 GHz dual-core processors, 16 GB memory, dual Ethernet, and one 36 GB SAS HDD. Power figures based on testing performance 04/14/2007—per-server power usage is Prime95 avg 4 thread. IBM = 256 W, HP 289 W.

[2] IBM hardware products are made from new parts, or new and serviceable used parts. Regardless, our warranty terms apply. For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC 27709, Attn: Dept. JDJA/B203. IBM makes no representation or warranty regarding third-party products or services, including those designated as ServerProven® or ClusterProven®.

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